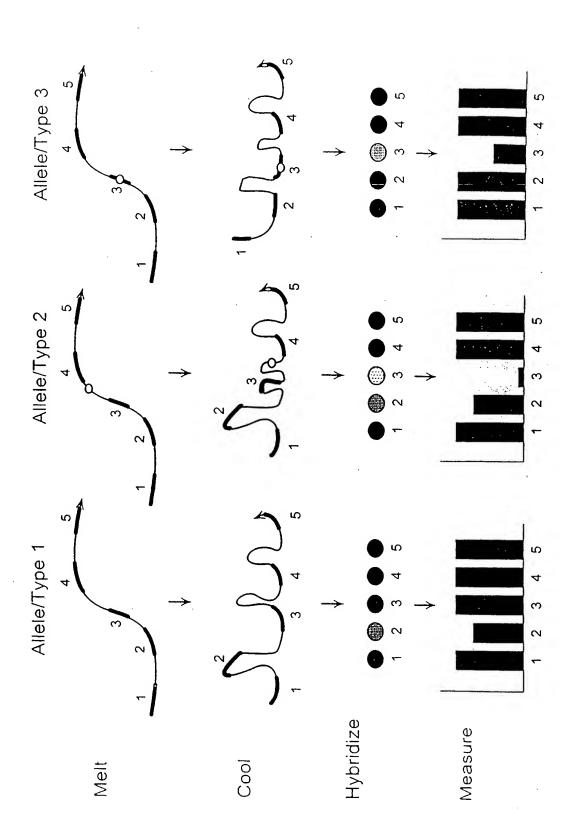
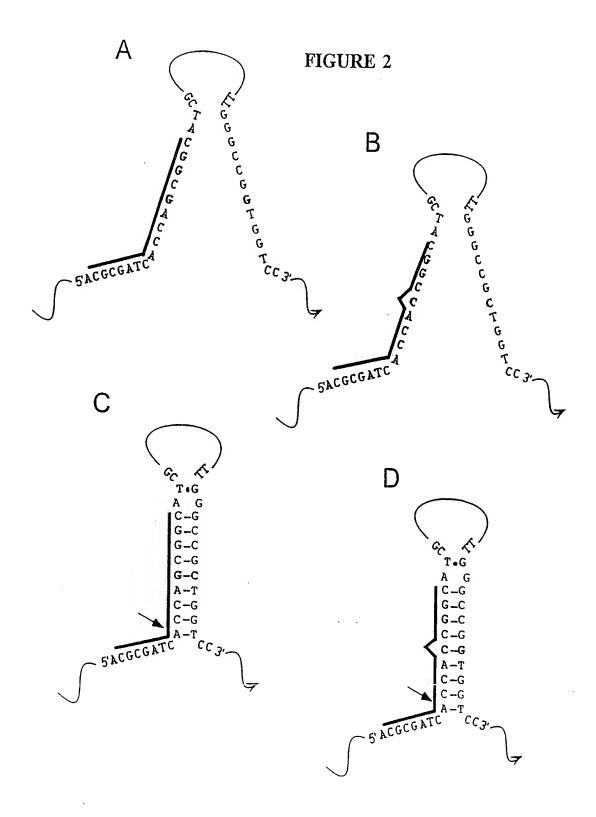
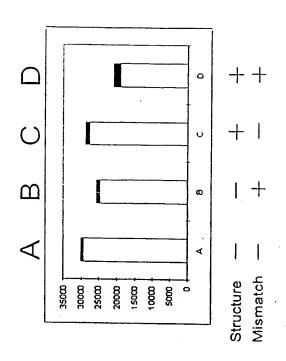
FIGURE 1







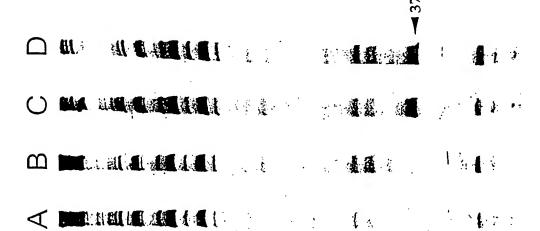
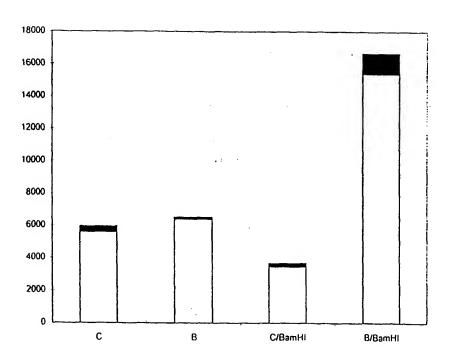


FIGURE 4



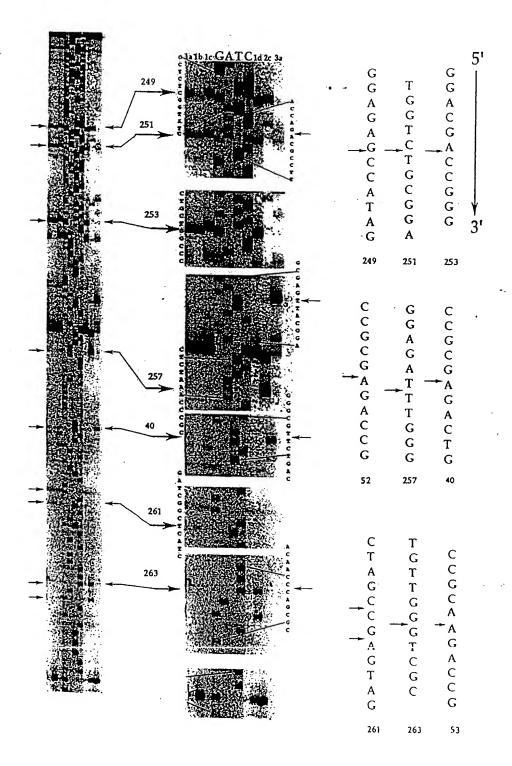
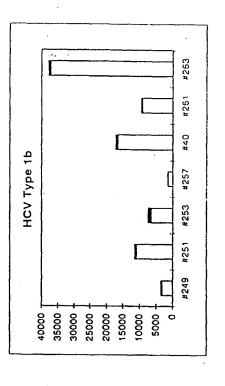
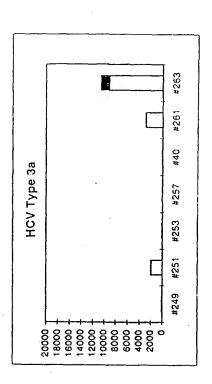


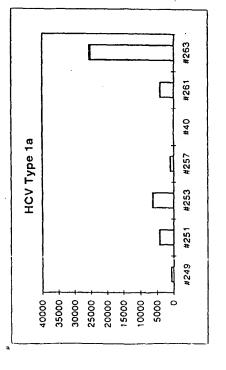
FIGURE (

GCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTGCAGCCT	#249 #251 CCCG GG AGAGCCATA G TGGTCTGCGG A ACCGGTGAG TACACCGGAA	#257 GGGTCC TTTCTTGGAT CAACCCGCTC AATGCCTGGA GATTTGGGCG	#263 CCGAGTAGTG TTGGGTCGCG	CGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCAATC
AGAA	#24 CCGGG	O	#261 CTAG	AGTG
sensus:GATTCTGTCT 3V 1a 3V 1b 3V 2c	CCAGGACCCC T	#253 TTGCCAGGAC 	#40 TGCCCCCGCA	TGATAGGGTG
sensus SV 1a SV 1b SV 2c				

FIGURE 7







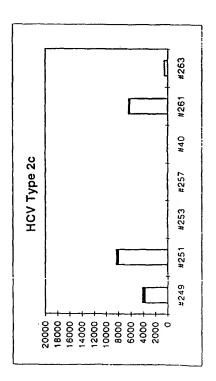
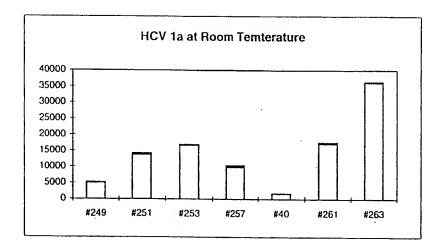
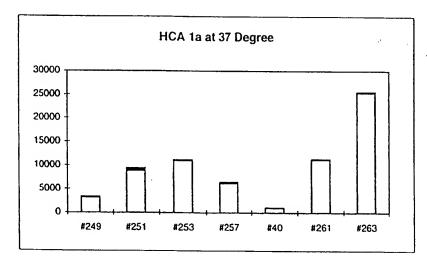


FIGURE 8A





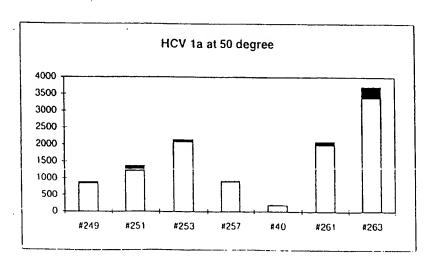
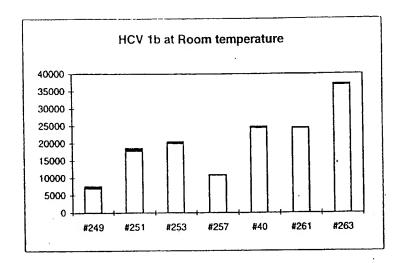
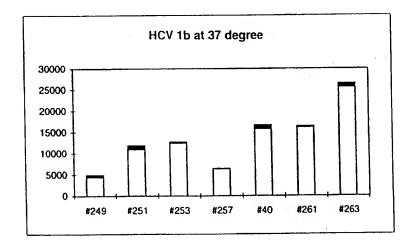


FIGURE 8B





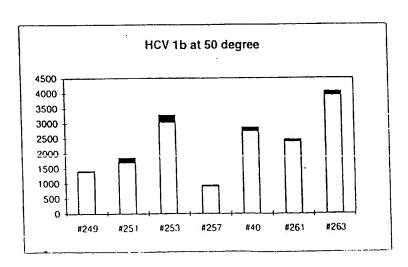
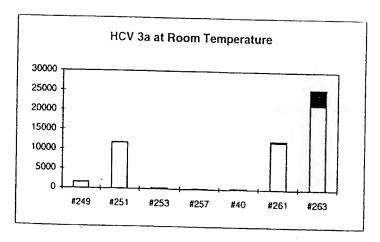
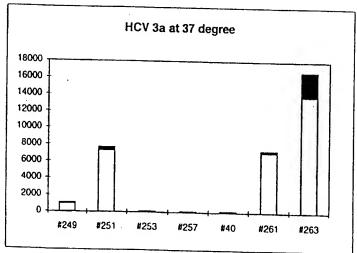


FIGURE 8C





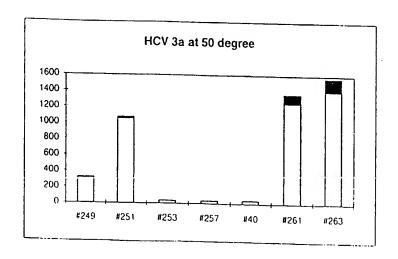


FIGURE 9A

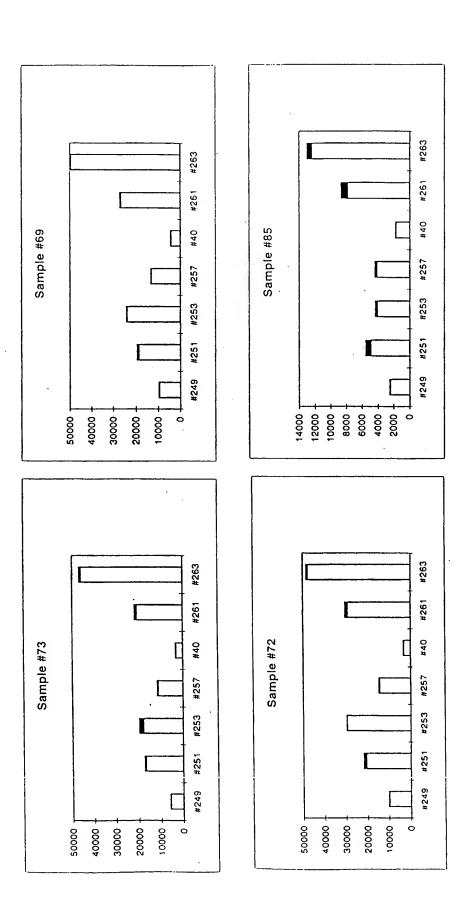
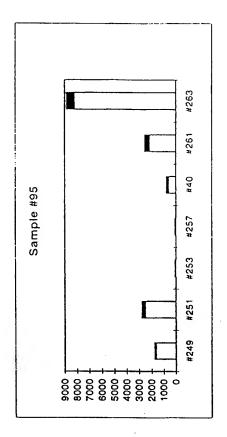
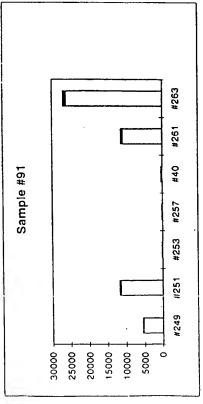


FIGURE 9B





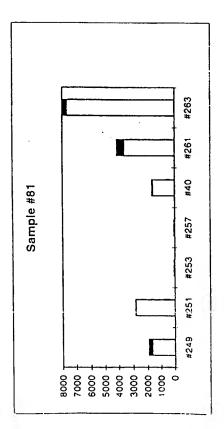
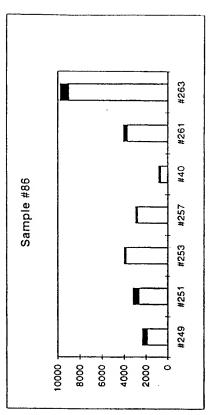


FIGURE 9C



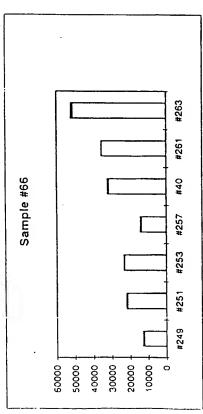
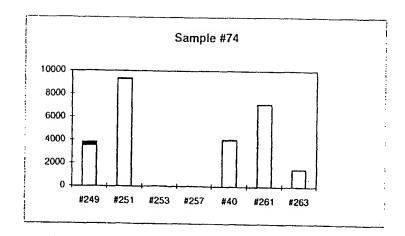
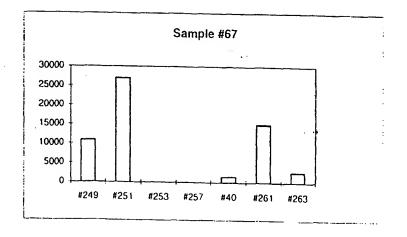


FIGURE 9D





#80

A

G A

T — A

C — G

T — A

G — C

T — A

C — G

G — C

C — G

G — C

C — G

5' - FI-TGCTCTCTGGT

TGGTCTCTCGTAAT-3'

FIGURE 11A

#2) 5' Biotin

T A
C G A
A T — A
G C — G
A T — A
C G — C
A T — A
G C — C
G C — C

#80) 5' - FI-T G C T C T C T G G T T G G T C T C G T A A T -3' #FD91) 3' Biotin - C G A G A G A C C A - 5'

> A G A C — G T — A G — C T — C C — C C — C

#80) 5' - FI-TGCTCTGGT TGGTCTCTCGTAAT-3'

#78) 3' - A G A C C A T T A C C A G A -Biotin 5'

#4) 3' - G A G A C C A T T A C C A G A G -Biotin 5'

#79) 3' - A G A G A C C A T T A C C A G A G A -Biotin 5'

#116) 3' - A G A G A C C A A C C A G A G A -Biotin 5'

#117) 3' - T A C C A G A G A -Biotin 5' #118) 3' - A G A G A C C A T - 5'

FIGURE 11B

```
A
G A
T — A
C — G
T — A
G — C
T — A
G — C
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FIGURE 12

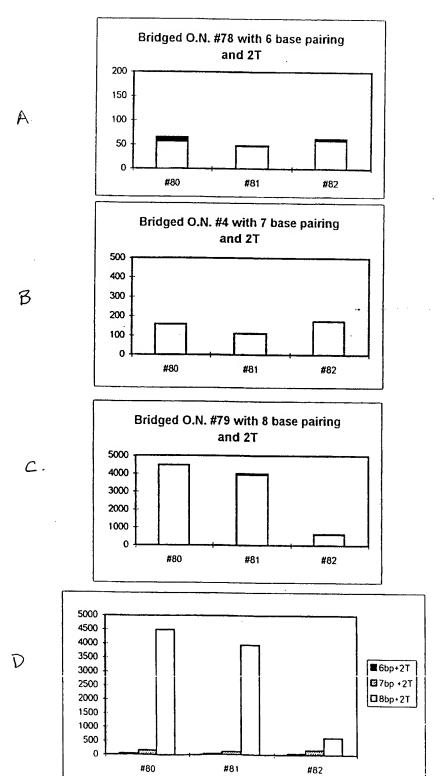


FIGURE 13A

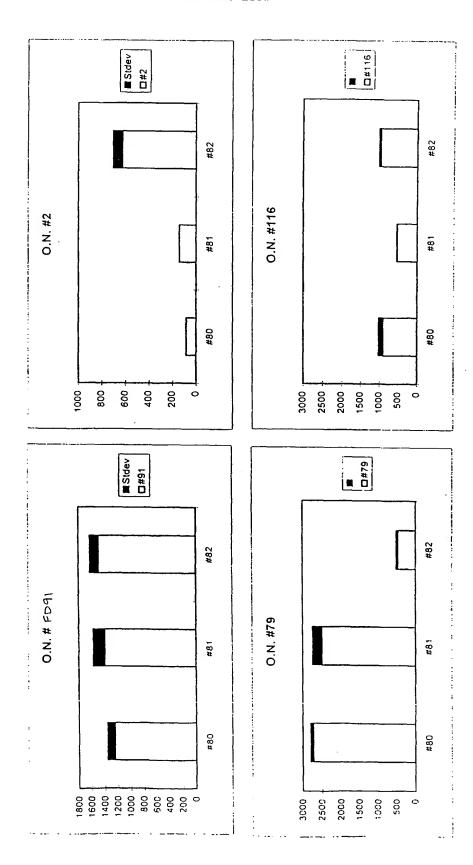


FIGURE 13B

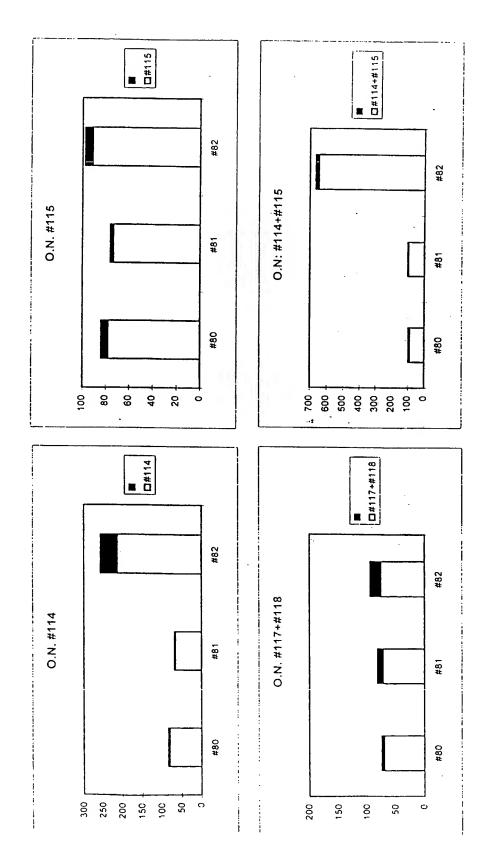
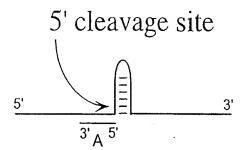
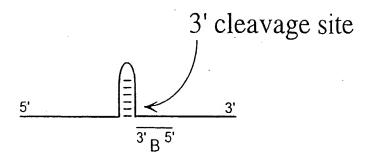
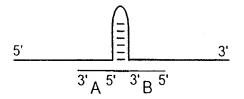


FIGURE 14







	11020304050
1a	CTCGCAAGCACCCTATCAGGCAGTACCACAAGGCCTTTCGCGACCCAACACTACTCGGCTAGCAGTCTTGCGGGGGGGCACG
16	
2a/c	
3a	i.lTGAiCTGAiC
	90100110120130140150160
1 9	cccaaatctccaigecattgagcidgetttatccaagaaaidgaccccigtcgtcgtcgtgcaattccggtgtactcaccggttcc
1b	
2a/c	
3a	Tftgi. TlGTACCA.i.ig
	170230240
<u>1</u>	GGAGGGGGGTCCTGGAGGCTGCACACACTCATACTAACGCCATGGCTAGA
16	J
2a/c 3a	
3	

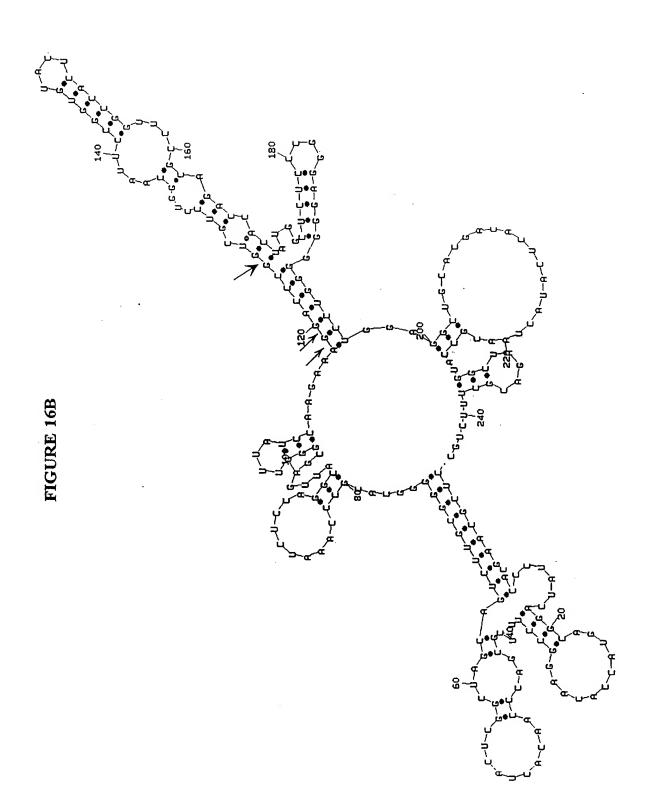
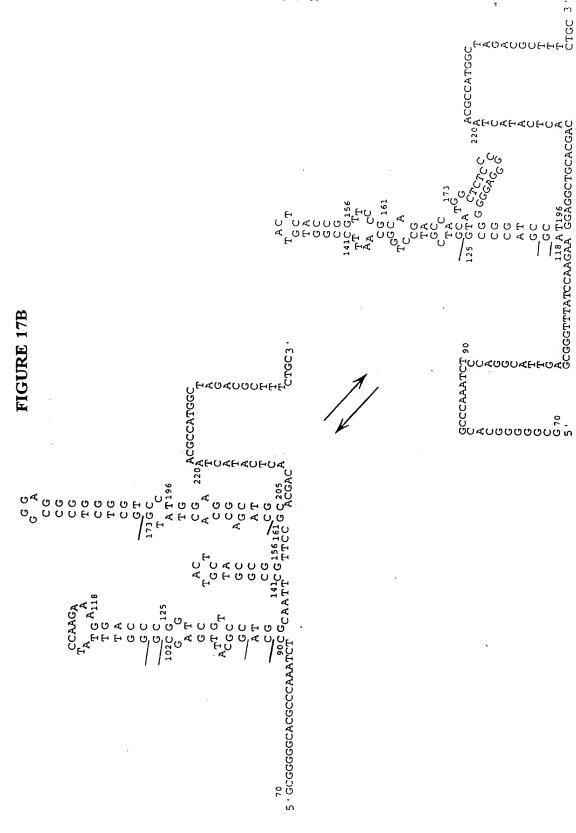


FIGURE 17A



M (#81-04)3'-AGGTTCTT_{CC}CCTCCGAC-F1

118 A T196 5'Biotin ----TCCAAGAA GG.

FIGURE 18A

```
HCV 1a
                                                  GG
                                                  СG
                                                  СG
                                                  СG
                                                  ΤG
                                                 ^CG
                                                  ΤG
                               TA
                                                  CG
                               G C
                                                  GT
                              G C
                                               173 G C
                           G C
102C G 125
                                                    C
                                                  A T196
                              G G
                                                  ΤG
                               ΑТ
                                                  C G
                               G C
                             _{\mathrm{T}}T_{\mathrm{T}}
                                                  СG
                                         ΤΑ
                                         GC
                               GC
                                         GC
                               ΑТ
                                                  ΑT
                                         СG
                               CG
                                                  C G
                                      141<sub>C G</sub> 156 161 G C 205
ATT TTCC ACGACACT — 3'
70
5 '_TGCGGGGCACGCCCAAATCT CAATT
                      (179-49-01)3' GGCCAAGG<sub>TT</sub>TGCTGTGA 5' b
                      (192-72-01)3' GGCCAAGG AA TGCTGTGA 5'
                      (192-72-02)3' GGCCAAGG<sub>AC</sub>TGCTGTGA 5'
                      (192-72-03)3' GGCCAAGG —TGCTGTGA 5' K
                      (192-72-04)3' GGCCTAGG_{TT}TGCTGTGA 5' C
                      (192-72-05)3' GGCCAAGG TT TGCAGTGA 5' O
```

70

FIGURE 18B

```
HCV<sub>1b</sub>
                               GG
                              G A
                               СG
                               СG
                               СG
                               ΤG
                               СG
                               ΤG
          ΤA
                               СG
          G C
                               GТ
          GC
                           173 G C
          G C
                              A T196
                              ΤG
          ΑТ
                              CG
          G C
                               CG
                               CG
                     GC
                             ^{
m A}G C
          GC
                    GC
          ΑТ
                               AT
          CG
90CG 141CG 156 161 G C 205
CAAATCT CAATT TTCC ACGACACT—3
  (179-49-01)3 · GGCCAAGG<sub>TT</sub>TGCTGTGA 5 · b
  (192-72-01)3' GGCCAAGG AA TGCTGTGA 5'
  (192-72-02)3' GGCCAAGG<sub>AC</sub>TGCTGTGA 5'
  (192-72-03)3' GGCCAAGG — TGCTGTGA 5' K
(192-72-04)3'GGCC\overline{\mathbf{T}}AGG_{TT}\overline{\mathbf{T}}GCTGTGA 5' \mathbf{C}
  (192-72-05)3' GGCCAAGG_{TT}TGCAGTGA 5' C
```

FIGURE 18C

```
AAG
                       HCV 2a/c
               Α
             A118
             A T
           AT G
                            GGA
            ТG
            ΤА
                             C G
             G C
                             СĠ
             G C
                             C G
            GC
                             тG
         102 T A125
                             C G
           G<sub>A T</sub>G
                             тG
            GC
            T An
                             G C
                          173 G C 196
             G C
                            G C
                             ΤG
            G C
                             C G
                  AC
             CGT
                  r r
G C
                             СG
           90C G
                   ΤA
             G C
            G A GC
                             АТ
                   G C
             ΤA
                C G 156 161G T T C G T 141 T T C C
-CACGCCCAA
                                 ACGACACT -
 (179-49-01)3 GGCCAAGG_{TT}TGCTGTGA 5 b
 (192-72-01)3' GGCCAAGG<sub>AA</sub>TGCTGTGA 5'
 (192-72-02)3' GGCCAAGG<sub>AC</sub>TGCTGTGA 5'
 (192-72-03)3' GGCCAAGG -TGCTGTGA 5' K
 (192-72-04)3' GGCCTAGG<sub>TT</sub>TGCTGTGA 5' C
 (192-72-05)3 \cdot \text{GGCCAAGG}_{TT} \overline{\text{TGCAGTGA}} 5 \cdot \text{C}
```

FIGURE 18D

```
HCV 3a
               CAAG
                A T
                                   ^{\rm G} ^{\rm A}
                 T A 118
                                  G
                G G
                                    CG
                 ΤG
                 ΤΑ
                                    C G
                 GC
                                    C G
                                    ΤG
                 G C
                 G C
                                    C G
             102C G 125
G G
                                    ТG
                                    CT
                 ΑТ
                                    G C
                 GC
                                173 G C
              A_{\mathbf{T}GC}^{\mathbf{T}^{\mathbf{T}}\mathbf{A}}\mathbf{C}
                                   <sup>Т</sup>А Т 196
                                    ТG
                  GC
                                    CG
                  GC
                                     CG
                        ΤA
               <sup>90</sup>C G
                 \mathbf{T} \, \mathbf{G}^{\mathsf{C} \, \mathsf{G} \, \mathsf{C}}
                        GC
                                     ΑТ
                        СG
                    T CG<sup>156</sup>161 G C 205
TTCC ACGACACT
-CACGCCCA
(179-49-01)3' GGCCAAGG<sub>TT</sub>TGCTGTGA 5' b
(192-72-01)3' GGCCAAGG AA TGCTGTGA 5'
(192-72-02)3 · GGCCAAGG<sub>AC</sub>TGCTGTGA 5 ·
(192-72-03)3' GGCCAAGG — TGCTGTGA 5' K
(192-72-04)3' GGCC\overline{\mathtt{TAGG}}_{TT}\overline{\mathtt{TGCTGTGA}}5' C
(192-72-05)3' GGCCAAGG TT TGCAGTGA 5' C
```

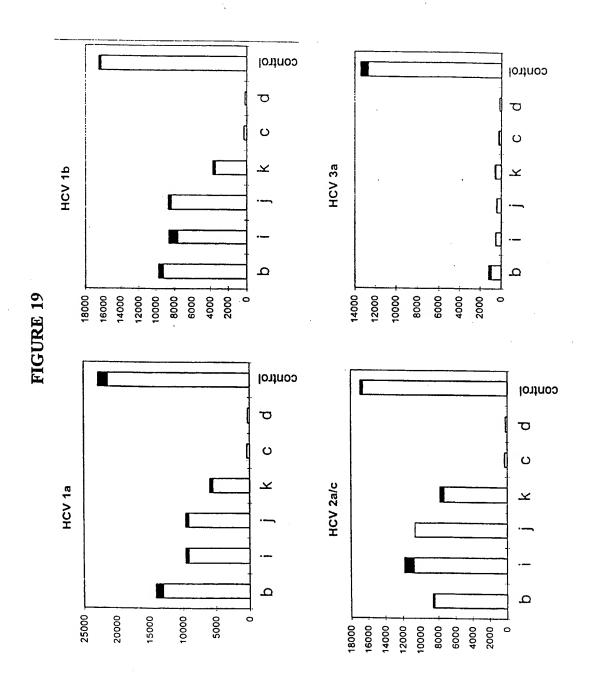


FIGURE 20A

3'-GGCCAAGGCGTCTGGTGA-F1'5'(205-13-02) 3'- $\overline{\mathtt{GGCCAAGG}}_{TT}\overline{\mathtt{TGCTGTGA}}$ ---F1'5'(179-49-01)

 ω

3'-GGCCTAGG $_{TT}$ TGCTGTGA

F1'5'(192-72-05) 3 '-GGCCAAGG TT TGCAGTGA

3'-GGCCAAGG-F15'(205-27-01)

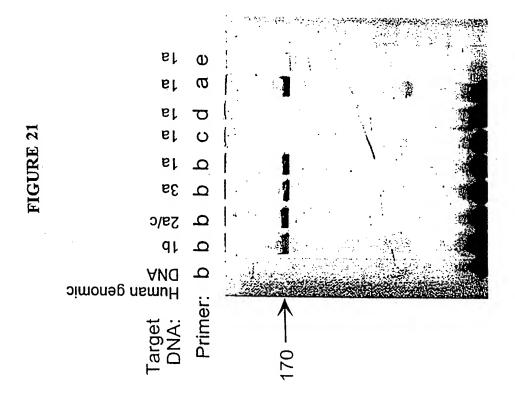
Φ

33 / 65

FIGURE 20B

5 -- CAATTCCGGTGTACTCACCGGTTCC

205-13-02) **a**



Φ

FIGURE 22

 $\begin{array}{c} \mathbf{0} \\ \mathbf{$

3'-GGCCAAGGCGTCTGGTGA-F1'5'(205-13-02)

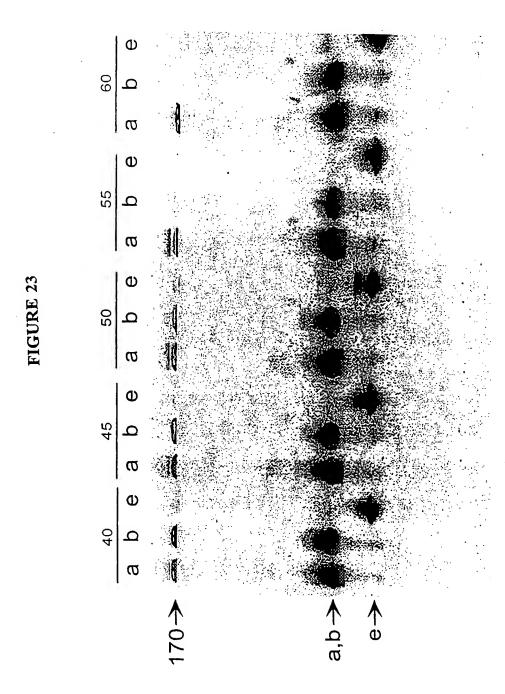
5 - CAATTCCGGTGTACTCACCGGTTCC G CACGACACT -

3'-GGCCAAGG $_{TT}$ TGCTGTGA $\cdot - \cdot$ F1'5' (179-49-01)

9

 $\boldsymbol{\omega}$

3'-GGCCAAGG-F15'(205-27-01)



 \circ

O

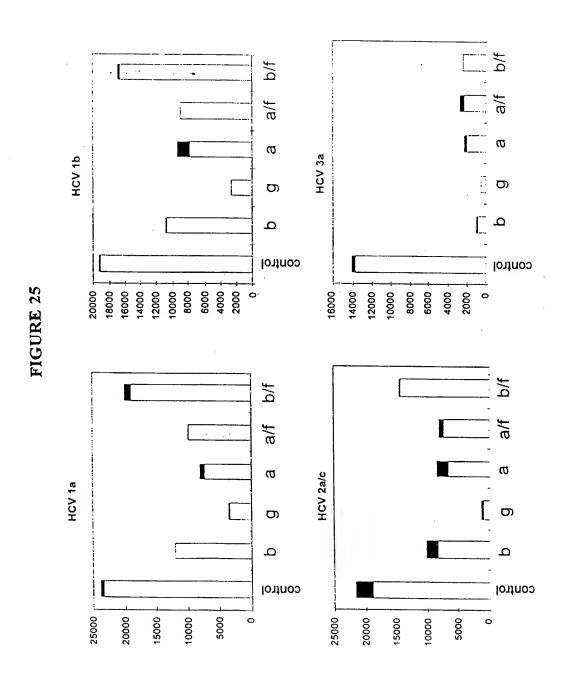
Φ

3'-GGCCAAGG-F15'(205-27-01)

FIGURE 24

3'-GGCCAAGGCGTCTGGTGA-F1'5'(205-13-02) F1'5'(179-49-01) 3'-GGCCTAGG $_{TT}$ TGCTGTGA \cdots F1'5' (192-72-04) 3 '- $\overline{\mathtt{GGCCAAGG}}_{TT}\overline{\mathtt{TGCAGTGA}}\cdots\mathtt{F1}$ '5' (192-72-05) 3'-GGCCAAGG_{TT}TGCTGTGA

(192-96-01)3'-TAAGGCCACATGAGT-5'



5'-ATTCCGGTGTACTCACCGGTTCCAAACGACACT-3'(205-13-01) ${f S}$ f (192-96-01)3'-TAAGGCCACATGAGT-5'

3'-GGCCAAGGCGTCTGGTGA-F1'5'(205-13-02) **a**3'-GGCCAAGG_{TT}TGCTGTGA-F1'5'(179-49-01) **b**3'-GGCCTAGG_{TT}TGCTGTGA-F1'5'(192-72-04) **c**3'-GGCCAAGG_{TT}TGCAGTGA F1'5'(192-72-05) **d**3'-GGCCAAGG-F15'(205-27-01) **e**

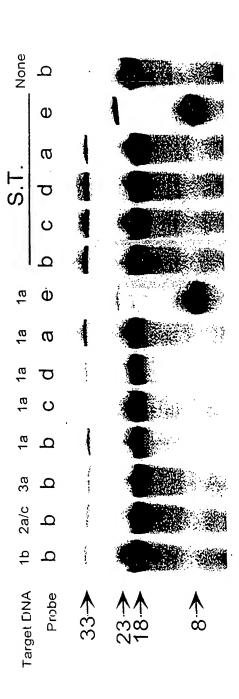
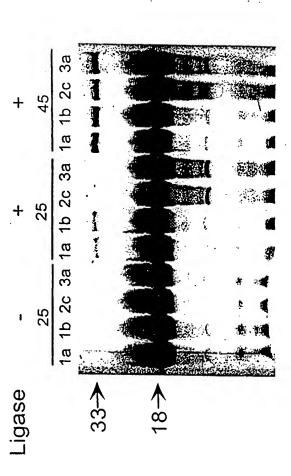


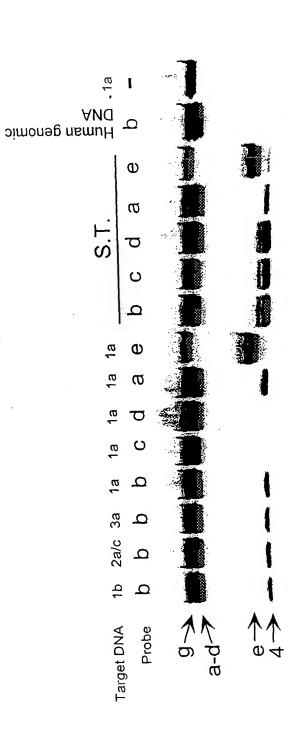
FIGURE 28



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\omega
                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                         \circ
                                                                                                                                                                                                                                                                                                                                                     Φ
                                                                                                                                                                                                                                                                                                                             p
                                                                                                                                                                                                                                                            3'-GGCCAAGGCGTCTGGTGA-F1'5'(205-13-02)
                                                                                                                                                                                                                                                                                   3 \cdot - \underline{\mathtt{GGCCAAGG}}_{TT} \underline{\mathtt{TGCTGTGA}} - \underline{\mathtt{Fl}} \cdot 5 \cdot (179 - 49 - 01)
                                                                                                                                                                                                                                                                                                          3 \cdot - \overline{\mathtt{GGCC}} \underline{\mathtt{TAGG}}_{TT} \overline{\mathtt{TGCTGTGA}} \cdots \underline{\mathtt{Fl}} \cdot 5 \cdot (192 - 72 - 04)
                                                                                                                                                                                                                                                                                                                                3 '-GGCCAAGG _{TT}TGCAGTGA -F1'5' (192-72-05)
                  FIGURE 29A
3'-GGCCAAGG-F15'(205-27-01)
                                                                                                                                                                                                                                                                                                                                                               -TAAGGCCACATGAGTG<sub>TT</sub>TT-F1'5'(192-96-02)
```

FIGURE 29B

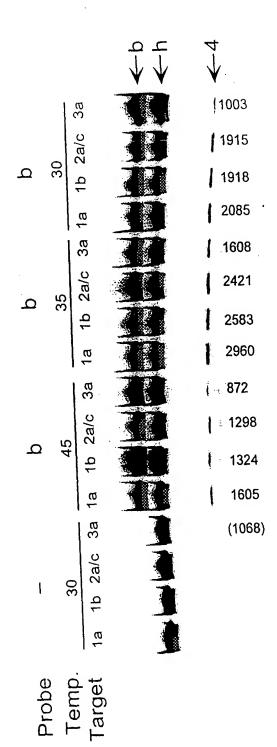
9 \circ Φ D 3'-GGCCAAGGCGTCTGGTGA-F1'5'(205-13-02) 3'-GGCCAAGG_{TT}TGCTGTGA--F1'5'(179-49-01) 3'-GGCCTAGG_{TT}TGCTGTGA--F1'5'(192-72-04) 3'-GGCCAAGG TTTGCAGTGA-F1'5' (192-72-05) 5'-ATTCCGGTGTACTCACCGGTTCCAAACGACACT-3'(205-13-01) 3'-GGCCAAGG-F15'(205-27-01) -raaggccacatgagtg_T_T_T-F1'5'(192-96-02) 9

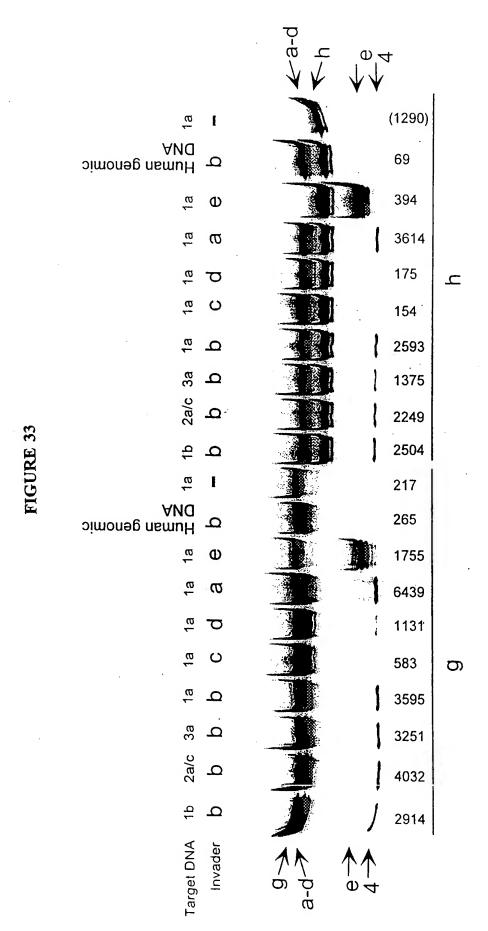


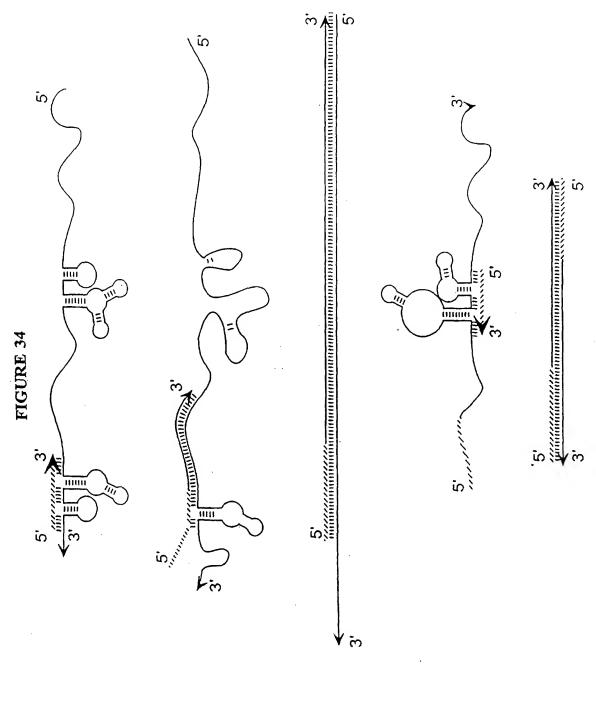
9 3 '- $\overline{\mathtt{GGCCAAGG}}_{TT}\overline{\mathtt{TGCTGTGA}}$ --F1 '5 ' (179-49-01) **h** (10 bp)3'-<u>сасатдадт</u>д _{тт}ттер'5'(205-81-01)

}

FIGURE 32







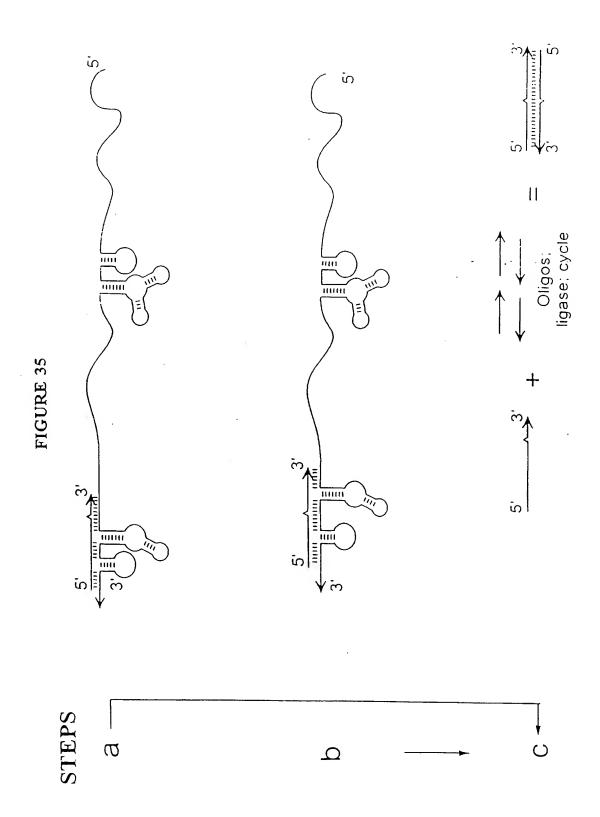
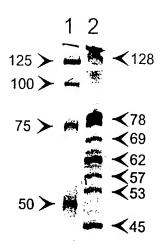


FIGURE 36



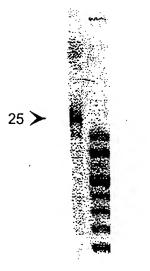


FIGURE 37A

53 / 65 **FIGURE 37B**

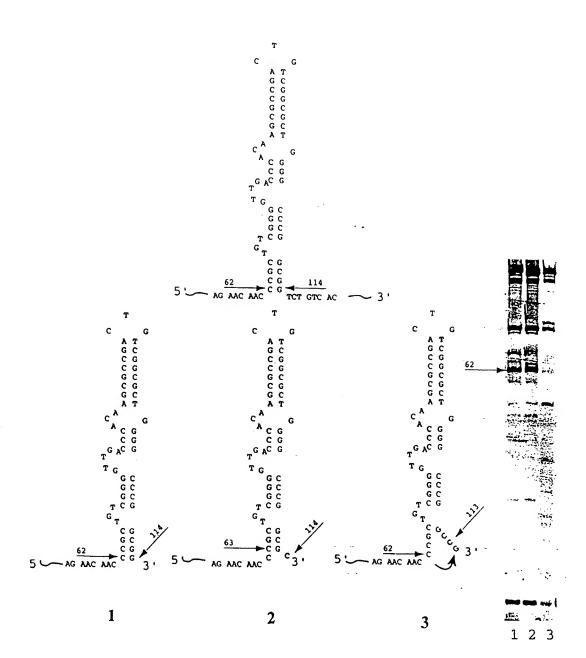


FIGURE 37C

```
G
                              АТ
                              G C
C G
C G
                              G C
C G
G C
                            A
CG
CG
                          TGACG
                           ^{\mathrm{T}}_{\mathrm{G}} GC
                              GC
                              GÇ
                            TCG
                          G<sub>TCG</sub>
                             GC
                             CG
               AG AAC AAC TCT GTC AC-
62-114 a
             3 TCT TGT TG _{\mbox{\scriptsize TT}} AG ACA GTG 5
62-114 b
                TCT TGT TG
                                 AG ACA GTG
62-114 c
                TCT TGT TG _{\mathbf{CG}} AG ACA GTG
               62-114 d
62-114 e
```

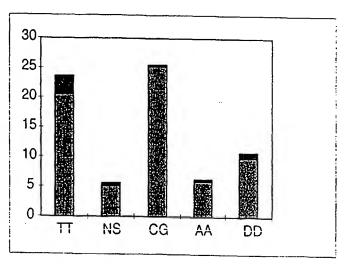
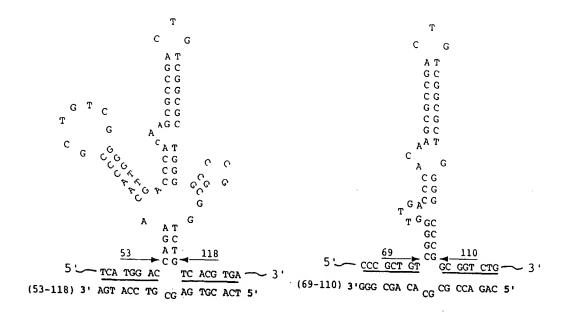
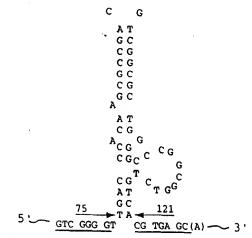


FIGURE 38A





(75-121a) 3'CAG CCC CA_{TA} GC ACT CG 5' (75-121b) 3'CAG CCC CA_{TA} GC ACT CGT 5'

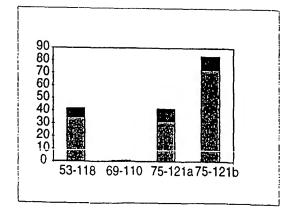
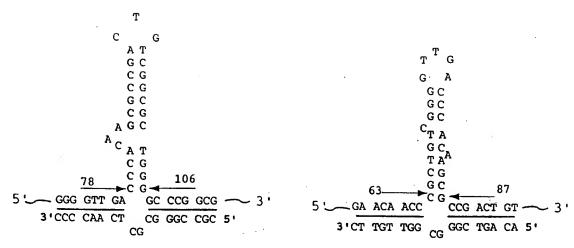


FIGURE 38B



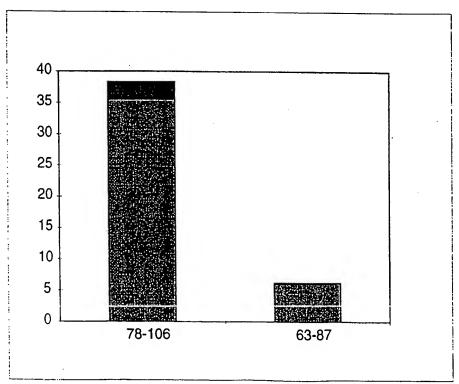
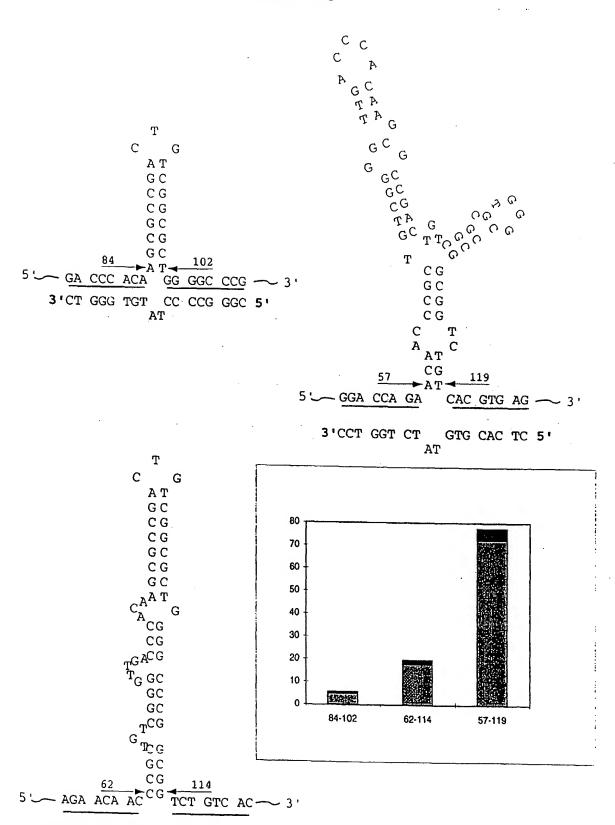
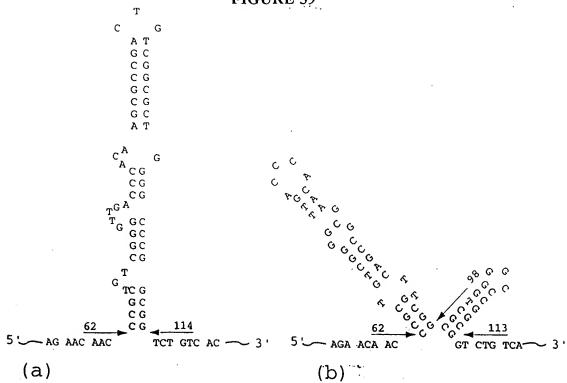
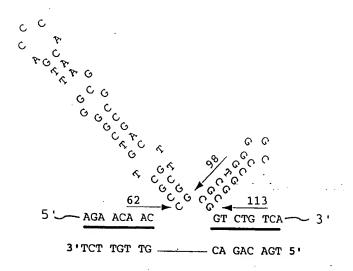


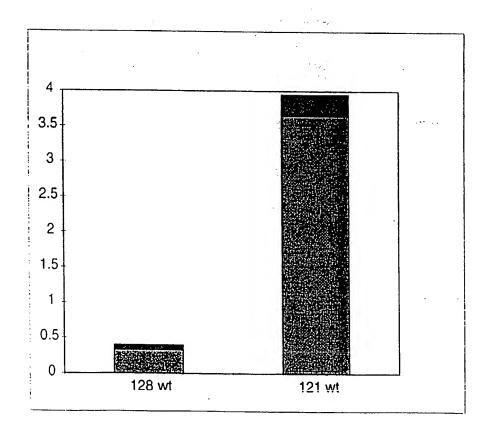
FIGURE 38C

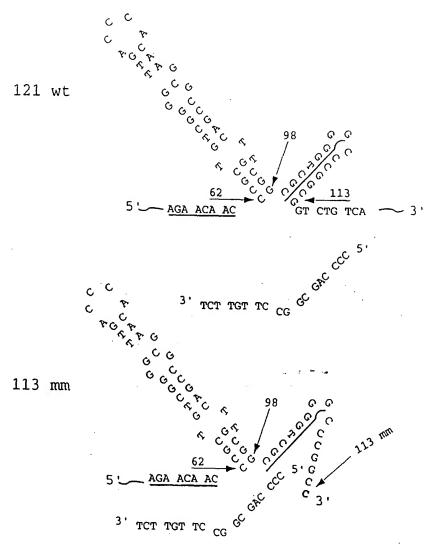


3'TCT.TGT TG $_{\mbox{\scriptsize TT}}$ AGA CAG TG 5'









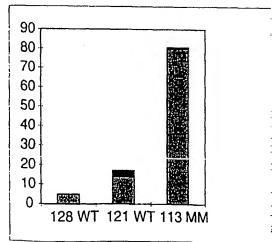
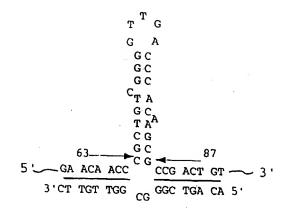


FIGURE 42



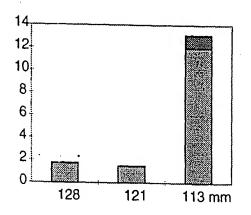


FIGURE 43A

3 · -GCCAAGG TT TGCTGTG

FIGURE 43B

3 - - GGTGTTC GT TGCGGGT -- F1-5' G33-C77(7) FIGURE 44A

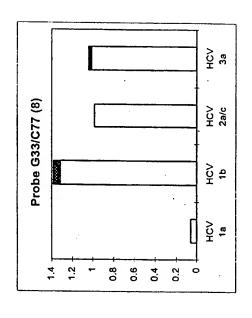


FIGURE 44B

